

Exhibit A page 1

Duke Energy Carolinas  
For the Period January 1, 2017 - December 31, 2021  
Docket Number 2020-xx-E  
Exhibit Summary for Rider EE Exhibits and Factors

### Residential Billing Factor

1 Costs to Be Recovered for Year 2017 True up	Year 2017, Exhibit 1, Line 16	(1,923,312)	
2 Costs to be Recovered for Year 2018 True Up	Year 2018, Exhibit 1, Line 16	2,778,866	
3 Costs to be Recovered for Year 2019 True Up	Year 2019, Exhibit 1, Line 16	7,787,290	
4 Total Cost to be Recovered Vintages Year 2017, Year 2018 and Year 2019 True-ups	Line 1 through line 3	\$ 8,642,845	
5 Projected SC Residential Sales (kWh) for rate period	R12 Exhibit 3, Page 1 Line 3	6,591,986,001	
6 Revenue Requirement True-up Component for <b>Residential Rider EE (cents per kWh)</b>	Line 4 / Line 5 * 100	0.1311	Application
7 Costs to be Recovered for Vintage Year 2018 Prospective Amounts	Year 2018 Exhibit 1 Line 16	2,189,578	
8 Costs to be Recovered for Vintage Year 2019 Prospective Amounts	Year 2019 Exhibit 1 Line 16	4,140,696	
9 Costs to be Recovered for Vintage Year 2020 Prospective Amounts	Year 2020 Exhibit 1 Line 1	1,975,653	
10 Costs to be Recovered for Vintage Year 2021 Prospective Amounts	Year 2021, Exhibit 1, pg 1 Line 12	30,454,645	
11 Less: Costs to be Recovered through Solar Access Fee	R12 Exhibit 3 page 2	1,185,693	
12 Total Prospective Components of Residential Revenue Requirement	Line 7 through Line 10 Less Line 11	\$ 37,574,879	
13 Projected SC Residential Sales (kWh) for rate period	R12 Exhibit 3, Page 1 Line 3	6,591,986,001	
14 Revenue Requirement Year Prospective Component for <b>Residential Rider EE (cents per kWh)</b>	Line 12 / Line 13 * 100	0.5700	Application
15 Total Revenue Requirement for Residential Rider EE	Line 5 + Line 13	\$ 46,217,724	
16 Total Revenue Requirement for <b>Residential Rider EE (cents per kWh)</b>	Line 6 + Line 14	0.7011	Application

### Non-Residential Billing Factors for Rider 12 True-Up Components

17 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	\$ (577,285)	
18 Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 8	4,564,691,454	
19 EE Revenue Requirement Vintage Year 2017 True-up <b>Non-Residential Rider EE (cents per kWh)</b>	Line 17/Line 18 * 100	(0.0126)	Application
20 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	\$ 47,245	
21 Projected Vintage Year 2017 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 9	5,448,234,396	
22 DSM Revenue Requirement Vintage Year 2017 True-up <b>Non-Residential Rider EE (cents per kWh)</b>	Line 20/Line 21 * 100	0.0009	Application
23 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$ 833,761	
24 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 10	4,505,782,182	
25 EE Revenue Requirement Vintage Year 2018 True-up <b>Non-Residential Rider EE (cents per kWh)</b>	Line 23/Line 24 * 100	0.0185	Application
26 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40	\$ (82,830)	
27 Projected Vintage Year 2018 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 11	5,495,148,562	
28 DSM Revenue Requirement Vintage Year 2018 True-up <b>Non-Residential Rider EE (cents per kWh)</b>	Line 26/Line 27 * 100	(0.0015)	Application
29 Total Vintage Year 2019 True-Up EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1 Line 27	\$ (6,134,090)	
30 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 12	4,448,799,169	
31 EE Revenue Requirement Vintage Year 2019 True-up <b>Non-Residential Rider EE (cents per kWh)</b>	Line 29/Line 30 * 100	(0.1379)	
32 Total Vintage Year 2019 DSM True Up Revenue Requirement - Vintage Year 2019 DSM Participant	Year 2019 Exhibit 1 Line 40	\$ 176,287	
33 Projected Vintage Year 2019 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 13	5,492,477,062	
34 DSM Revenue Requirement Vintage Year 2019 True-up <b>Non-Residential Rider EE (cents per kWh)</b>	Line 32/Line 33 * 100	0.0032	

**Non-Residential Billing Factors for Rider 12 Prospective Components**

35 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$	2,036,447	
36 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 10		4,505,782,182	
37 EE Revenue Requirement Vintage Year 2018 Lost Revenues <b>Non-Residential Rider EE (cents per kWh)</b>	Line 35/Line 36 * 100		<b>0.0452</b>	Application
38 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27	\$	3,626,400	
39 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 12		4,448,799,169	
40 EE Revenue Requirement Vintage Year 2019 Lost Revenues <b>Non-Residential Rider EE (cents per kWh)</b>	Line 38/Line 39 * 100		<b>0.0815</b>	
41 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7	\$	3,314,813	
42 Projected Vintage Year 2020 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 14		4,404,495,996	
43 EE Revenue Requirement Vintage Year 2020 Program Costs and Lost Revenues <b>Non-Residential Rider EE (cents per kWh)</b>	Line 41/Line 42 * 100		<b>0.0753</b>	
44 Total Vintage Year 2021 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant	Year 2021 Exhibit 1, Pg. 2, Line 7	\$	20,106,288	
45 Projected Vintage Year 2021 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 16		4,404,495,996	
46 EE Revenue Requirement Vintage Year 2021 Program Costs and Lost Revenues <b>Non-Residential Rider EE (cents per kWh)</b>	Line 44/Line 45 * 100		<b>0.4565</b>	
47 Total Vintage Year 2021 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2021 Exhibit 1, Pg. 2, Line 17	\$	9,105,408	
48 Projected Vintage Year 2021 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 19		5,492,477,062	
49 DSM Revenue Requirement Vintage Year 2021 Program Costs <b>Non-Residential Rider EE (cents per kWh)</b>	Line 47/Line 48 * 100		<b>0.1658</b>	Application
<u>Total costs to be recovered in Rider 12 from Non-Residential Customers</u>				
50 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27		(577,285)	
51 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40		47,245	
52 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27		833,761	
53 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40		(82,830)	
54 Total Vintage Year 2019 True-Up EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1 Line 27		(6,134,090)	
55 Total Vintage Year 2019 DSM True Up Revenue Requirement - Vintage Year 2019 DSM Participant	Year 2019 Exhibit 1 Line 40		176,287	
56 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27		2,036,447	
57 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27		3,626,400	
58 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7		3,314,813	
59 Total Vintage Year 2021 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant	Year 2021 Exhibit 1, Pg. 2, Line 7		20,106,288	
60 Total Vintage Year 2021 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2021 Exhibit 1, Pg. 2, Line 17		9,105,408	
61 Total Non-Residential Revenue Requirements			<b>32,452,445</b>	Application

RIDER EE (SC)  
ENERGY EFFICIENCY RIDERAPPLICABILITY (South Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the Public Service Commission of South Carolina (PSCSC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate. As of January 1, 2021, cost recovery under Rider EE consists of the four-year term program, years 2015-2018, as well as rates under the continuation of that program for years 2019-2021 as outlined below. This rider applies to service supplied under all rate schedules except rate schedules OL, PL and NL for program years 2017-2021.

The Rider will recover the cost of Duke Energy Carolinas' Interruptible Service and Stand-By Generator programs ("Existing DSM Programs") based on the cost of bill credits and amounts paid to customers participating on these programs ("Program Costs"). Revenue requirements will be determined on a system basis and allocated to SC retail customer classes based on the class contribution to system peak demand.

GENERAL PROVISIONS

This Rider will recover the cost of the Company's energy efficiency and demand-side management programs beginning January 1, 2015, using the method approved by the PSCSC set forth in Order No. 2013-889.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be true-up on an annual basis as actual customer participation and actual kW and kWh impacts are verified. The true-up will reflect actual participation and EM&V results for the most recently completed vintage. If a customer participates in any vintage of programs, the customer is subject to the true-ups for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where:

- a. The Customer has notified the Company in writing that it elects to opt out and that the opt-out customer has implemented its own energy management system or has performed or had performed for it an energy audit or analysis within the three year period preceding the opt out request and has implemented or has plans for implementing the cost-effective energy efficiency measures recommended in that audit or analysis; and
- b. Electric service to the Customer must be provided under:
  1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes; or
  2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or greater in the billing months of the prior calendar year. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

For Customers who elect to opt out of Energy Efficiency Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the designated annual two-month enrollment period. For the Rider EE 2021 Program Year, the enrollment period begins November 1, 2020 and ends December 31, 2020.
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt-out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

RIDER EE (SC)  
ENERGY EFFICIENCY RIDER

For Customers who elect to opt out of Demand-Side Management Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2021 through December 31, 2021 including revenue-related taxes and utility assessments are as follows:

**Residential**

Vintage 2017, 2018, 2019, 2020, 2021 0.7011¢ per kWh

**Total Residential 0.7011¢ per kWh**

**Nonresidential**

	<u>Energy Efficiency</u>	<u>Demand-Side Management</u>
2017 Vintage*	(0.0126)¢ per kWh	0.0009¢ per kWh
2018 Vintage*	0.0637¢ per kWh	(0.0015)¢ per kWh
2019 Vintage*	(0.0564)¢ per kWh	0.0032¢ per kWh
2020 Vintage*	0.0753¢ per kWh	0.0000¢ per kWh
2021 Vintage*	0.4565¢ per kWh	0.1658¢ per kWh

Total Vintage  
2017, 2018,  
2019, 2020 and 2021 0.5265¢ per kWh 0.1684¢ per kWh

**Total Nonresidential 0.6949¢ per kWh**

\* Not Applicable to Rate Schedules OL, PL and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

Year 2017 Exhibit 1

**Duke Energy Carolinas**  
**For the period January 1, 2017 - December 31, 2017**  
**Docket No. 2019-89-E**  
**Calculation of Year 2017 True up of Y1, Y2 and Y3 Lost Revenues**

<b>Residential Energy Efficiency Programs</b>			<b>Rider 8</b>	<b>Rider 9 Year 2</b>	<b>True-up to be Collected</b>	<b>Estimate of</b>	<b>True-up to be Collected</b>	<b>Estimate of</b>	<b>True-up to be Collected</b>	
Line			<b>Year 2017 Estimate</b>	<b>Lost Revenue Estimate</b>	<b>in Rider 10</b>	<b>Year 3 Lost Revenues</b>	<b>in Rider 11</b>	<b>Year 4 Lost Revenues</b>	<b>in Rider 12</b>	<b>Year 2017</b>
1	Residential EE Program Cost	Year 2017 Exh 2 (B * D)	\$ 12,383,092		\$ 5,273,485		\$ -		\$ -	\$ 17,656,577
2	Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D)	1,384,934		2,008,972		(92,627)		-	3,301,279
3	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 10	13,768,026		7,282,457		(92,627)		-	20,957,856
4	Residential DSM Program Cost	Year 2017 Exh 2 (B * E)	2,997,324		251,290		-		-	3,248,614
5	Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * E)	1,117,352		68,938		-		-	1,186,290
6	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 11	4,114,676		320,228		-		-	4,434,904
7	Residential Existing DSM Program Revenue Requirement Estimate	Prior Year data	576,427		22,800		-		-	599,227
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	18,459,129		7,625,485	-	(92,627)		-	25,991,987
9	Revenue-related taxes and regulatory fees factor		1.004493		1.004487		1.004450		1.005014	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	18,542,066		7,659,701		(93,039)		-	26,108,728
11	Residential Net Lost Revenues	R12 Exh 1 page 1	4,457,989	4,202,002	(197,107)	3,175,509	(131,090)	699,427	(839,921)	11,366,808
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	23,000,055	4,202,002	7,462,594	3,175,509	(224,129)	699,427	(839,921)	37,475,536
13	Estimated Revenues Collected	R12 Exh 2 Line 1								38,868,847
14	Residential EE Revenue Requirement	Line 12 - Line 13								\$ (1,393,311)
15	Estimated Interest to be Recovered	R12 Exh 4 page 1 Line 12								(530,000)
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15								\$ (1,923,312)

See Exhibit A for rate

<b>Non-Residential Energy Efficiency Programs</b>			<b>Rider 8</b>	<b>Rider 9 Year 2</b>	<b>True-up to be Collected</b>	<b>Estimate of</b>	<b>True-up to be Collected</b>	<b>Estimate of</b>	<b>True-up to be Collected</b>	
		<b>Reference</b>	<b>Year 2017 Estimate</b>	<b>Lost Revenue Estimate</b>	<b>in Rider 10</b>	<b>Year 3 Lost Revenues</b>	<b>in Rider 11</b>	<b>Year 4 Lost Revenues</b>	<b>in Rider 12</b>	<b>Year 2017</b>
17	Non-Residential EE Program Cost	Year 2017 Exh 2 (B * D) Line 24	\$ 14,343,825		\$ 12,031,371		\$ -		\$ -	\$ 26,375,196
18	Non-Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 24	4,131,457		3,136,348		1,261,167		-	8,528,972
19	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 24	18,475,282		15,167,719		1,261,167		-	34,904,168
20	Revenue-related taxes and regulatory fees factor		1.004493		1.004487		1.004450		1.005014	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22	18,558,291		15,235,776		1,266,779		-	35,060,847
22	Non-Residential Net Lost Revenues	R12 Exh 1 page 1	2,062,368	9,466,867	(2,154,791)	5,864,726	562,677	1,151,434	(1,416,219)	15,537,062
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	20,620,659	9,466,867	13,080,985	5,864,726	1,829,456	1,151,434	(1,416,219)	50,597,909
24	Estimated Revenues Collected	R12 Exh 2 Line 7								51,155,744
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24								\$ (557,835)
26	Estimated Interest to be Recovered	R12 Exh 4 page 3 Line 12								(19,449)
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26								\$ (577,285)
28	Projected SC Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 8								4,564,691,454
29	<b>SC Non-Residential EE billing factor (Cents/kWh)</b>	<b>Line 27 / Line 28 * 100</b>								<b>(0.0126)</b>

<b>Non-Residential DSM Programs</b>			<b>Rider 9 Year 2</b>	<b>True-up to be Collected</b>	<b>True-up to be Collected</b>	<b>True-up to be Collected</b>	
			<b>Lost Revenue Estimate</b>	<b>Rider 10</b>	<b>Rider 11</b>	<b>Rider 12</b>	<b>Year 2017 Revenue Requirement True up</b>
30	Non-Residential DSM Program Cost	Year 2017 Exh 2 (B * D) Line 26	\$ 4,874,691	\$ (377,480)		\$ (0)	\$ 4,497,211
31	Non-Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 26	1,817,203	(174,966)		0	1,642,237
32	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 26	6,691,894	(552,446)	-	(0)	6,139,448
33	Non-Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exh 4 Line 3	937,471	(107,933)		-	829,538
34	Total DSM Revenue Requirement	Line 32 + Line 33	7,629,365	(660,379)	-	(0)	6,968,986
35	Revenue-related taxes and regulatory fees factor		1.004517	1.004487	1.004450	1.005014	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35	7,663,827	(663,342)	-	(0)	7,000,484
37	Estimated Revenues Collected	R12 Exhibit 2 Line 13					6,953,384
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37					47,100
39	Estimated Interest Due	R12 Exh 4 Page 3 Line 25					145
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39					\$ 47,245
41	Projected SC Non-Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 9					5,448,234,396
42	<b>SC Non-Residential DSM billing factor</b>	<b>Line 40 / Line 41 * 100</b>					<b>0.0009</b>

<sup>1</sup> Details outlining the change in the program cost and incentive component can be found in Year 2017 Exh 2.

<sup>2</sup> Updated lost revenues by year can be found in R12 Exh 1 page 1. Year 2017 has been updated with most recent participation. Year 4 Lost Revenues are shown as an estimate. They will be trued up in Rider 13.

Year 2017 Exhibit 2

Duke Energy Carolinas  
For the Period January 1, 2017 - December 31, 2017  
Docket Number 2020-xx-E  
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

	A		B		C = A + B	D	E = C * D	
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	Total Cost	Earned Utility Incentive	System Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2017 Exhibit 3 Line 6)	SC Residential Revenue Requirement
Residential Programs								
EE Programs								
1 Appliance Recycling	-	-	\$ -	\$ 5,297	\$ (609)	\$ 4,688	27.1285500%	\$ 1,272
2 Energy Efficiency Education	1,393	5,932,086	3,796,779	2,072,267	198,319	2,270,586	27.1285500%	615,977
3 Energy Efficient Appliances and Devices	24,605	137,909,103	109,489,038	30,275,929	9,109,507	39,385,436	27.1285500%	10,684,698
4 Residential – Smart Saver Energy Efficiency Program	1,850	6,712,977	7,785,926	7,387,527	45,816	7,433,343	27.1285500%	2,016,558
5 Income Qualified Energy Efficiency and Weatherization Assistance	771	5,341,624	3,379,518	5,493,401	-	5,493,401	27.1285500%	1,490,281
6 Multi-Family Energy Efficiency	2,056	19,038,529	14,103,065	3,161,750	1,258,251	4,420,001	27.1285500%	1,199,082
7 Energy Assessments	1,040	7,720,549	6,828,928	2,902,310	451,561	3,353,871	27.1285500%	909,857
8 Total for Residential Conservation Programs	31,715	182,654,868	\$ 145,383,253	\$ 51,298,482	\$ 11,062,845	\$ 62,361,327		\$ 16,917,725
9 My Home Energy Report (1)	79,070	311,368,855	\$ 23,405,321	\$ 13,786,373	1,106,179	14,892,552	27.1285500%	4,040,134
10 Total Residential Conservation and Behavioral Programs	110,786	494,023,724	\$ 168,788,574	65,084,855	\$ 12,169,025	\$ 77,253,880		\$ 20,957,857
							SC Residential Peak Demand Allocation Factor (Year 2017, Exhibit 3 Line 14)	C * D
11 Total DSM Programs (2)	846,941	2,943,906	\$ 124,226,016	29,752,076	\$ 10,864,503	\$ 40,616,579	10.91895%	\$ 4,434,904
12 Total Residential Revenue Requirement								25,392,761
Non-Residential Programs								
EE Programs								
13 Non Residential Smart Saver Customer Technical Assessments	1,627	15,791,732	\$ 10,616,111	\$ 2,135,919	\$ 975,222	\$ 3,111,141	27.1285500%	\$ 844,007
14 Non Residential Smart Saver Custom	6,010	40,609,855	35,921,968	7,280,168	3,293,807	10,573,975	27.1285500%	2,868,566
15 Non Residential Smart Saver Energy Efficient Food Service Products	112	1,383,542	975,826	305,687	77,066	382,753	27.1285500%	103,835
16 Non Residential Smart Saver Energy Efficient HVAC Products	894	2,954,877	3,173,877	1,557,542	185,879	1,743,420	27.1285500%	472,965
17 Non Residential Smart Saver Energy Efficient Lighting Products	47,322	270,572,885	249,011,331	66,551,086	20,982,928	87,534,014	27.1285500%	23,746,709
18 Non Residential Energy Efficient Pumps and Drives	687	4,806,849	3,186,443	527,539	305,774	833,313	27.1285500%	226,066
19 Non Residential Energy Efficient ITEE	-	2,945	522	60,885	(6,942)	53,944	27.1285500%	14,634
20 Non Residential Energy Efficient Process Equipment Products	99	651,289	548,581	161,937	44,464	206,401	27.1285500%	55,993
21 Non Residential Smart Saver Performance Incentive	3	12,373	9,433	313,256	(34,940)	278,316	27.1285500%	75,503
22 Small Business Energy Saver	17,263	90,297,362	65,920,718	17,318,666	5,589,236	22,907,902	27.1285500%	6,214,582
23 Smart Energy in Offices	2,138	10,272,154	1,115,495	884,119	26,608	910,727	27.1285500%	247,067
24 Business Energy Report	3	42,398	722	126,219	-	126,219	27.1285500%	34,241
25 Total for Non-Residential Conservation Programs	76,158	437,398,260	\$ 370,481,025	97,223,022	\$ 31,439,103	\$ 128,662,124		\$ 34,904,168
							SC Residential Peak Demand Allocation Factor (Year 2017, Exhibit 3 Line 15)	C * D
26 Total DSM Programs								
27 Total Non-Residential Revenue Requirement	846,941	2,943,906	\$ 124,226,016	\$ 29,752,076	10,864,503	\$ 40,616,579	15.11562%	\$ 6,139,448
								41,043,615
							SC Residential Peak Demand Allocation Factor (Year 2017, Exhibit 3 Line 13)	C * D
Total DSM Program Breakdown								
28 Power Manager (Residential)	501,118	-	\$ 72,328,478	\$ 13,991,587	6,708,742	20,700,330		
29 EnergyWise for Business (Non-Residential)	5,453	2,943,906	2,770,718	2,475,377	33,964	2,509,341		
30 Power Share Call Option (Non-Residential)	-	-	-	-	-	-		
31 Power Share (Non-Residential)	340,369	-	49,126,820	13,285,111	4,121,797	17,406,908		
32 Total DSM	846,941	2,943,906	\$ 124,226,016	\$ 29,752,076	\$ 10,864,503	40,616,580	26.03457%	\$ 10,574,352
33 Total All Programs	1,033,884	934,365,890	663,495,616	192,059,952	54,472,631	246,532,584		66,436,377

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

**Duke Energy Carolinas**  
**For the Period January 1, 2017 - December 31, 2017**  
**Docket Number 2020-xx-E**  
**Allocation Factor Year 2017**

			<u>MWH</u>
<b>Sales Allocator - 2016</b>			
1	NC Retail MWH Sales, at Generation	Company Records	60,219,051
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,437,625
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	82,656,676
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,859
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	82,708,535
<b>Allocation 1 to state based on kWh sales</b>			
6	SC Retail	Line 2 / Line 5	<b>27.12855%</b>

			<u>NC MW</u>	<u>SC MW</u>	<u>Total MW</u>
<b>Demand Allocators - 2016</b>					
7	Residential	Company Records	5,545,784	1,791,145	7,336,929
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,573,854	2,479,566	9,053,420
9	Greenwood	Company Records	-	13,651	13,651
10	Total	Line 7 + Line 8+ Line 9	12,119,638	4,284,362	16,404,000
11	Wholesale Peak Demand	Company Records			1,683,179
12	Total System Peak Demand	Line 10 + Line 11			18,087,179
<b>Allocation 2 to state based on peak demand</b>					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total			<b>26.03457%</b>
<b>Allocation 3 SC res vs non-res Peak Demand to retail system peak</b>					
14	SC Residential	Line 7,SC / Line 10 Total			<b>10.91895%</b>
15	SC Non-residential	Line 8, SC / Line 10 Total			<b>15.11562%</b>
<b>Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM</b>					
16	SC Residential	Line 7,SC / Line 12 Total			<b>9.90284%</b>
17	SC Non-residential	Line 8, SC / Line 12 Total			<b>13.70897%</b>

Year 2018 Exhibit 1

Duke Energy Carolinas  
For the period January 1, 2018 - December 31, 2018  
Docket No. 2020-xx-E  
Calculation of Year 2018 True up of Shared Savings, Y1 and Y2 Lost Revenues and Estimate Y4 Lost Revenues

## Residential Energy Efficiency Programs

Line		Estimate of Year 4 Lost Revenues
1	Residential EE Program Cost	Year 2018 Exh 2 (B * D)
2	Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D)
3	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2018 Exh 2 (B * E)
5	Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (C * E)
6	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exhibit 3 Line 3
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R12 Exh 1 page 2
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R12 Exh 2 Line 2
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R12 Exh 4 page 1 Line 10
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15
		<b>\$ 2,189,578</b>

Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Rider 11 Year 3 Lost Revenue Estimate	True up to be Collected in Rider 12	Year 2018
\$ 15,283,486		\$ 5,717,424		\$ 0	\$ 21,000,911
2,823,195		2,073,758		63,898	4,960,851
18,106,681		7,791,182		63,898	25,961,761
3,121,492		(36,918)		0	3,084,575
1,299,438		(120,575)		(2,660)	1,176,202
4,420,930		(157,493)		(2,660)	4,260,777
587,633		(69,105)		-	518,528
23,115,244		7,564,584		61,238	30,741,066
1,004,468		1,004,450		1,005,014	
23,218,523		7,598,246		61,545	30,878,314
6,835,885	2,340,939	(1,098,081)	3,658,997	2,401,981	14,139,722
30,054,408	2,340,939	6,500,166	3,658,997	2,463,526	45,018,037
					42,642,343
					\$ 2,375,694
					403,172
					<b>\$ 2,778,866</b>

See Exhibit A for rate

## Non-Residential Energy Efficiency Programs

	Reference	Estimate of Year 4 Lost Revenues
17	Non-Residential EE Program Cost	Year 2018 Exh 2 (B * D) Line 24
18	Non-Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D) Line 24
19	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 24
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22
22	Non-Residential Net Lost Revenues	R12 Exh 1 page 2
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R12 Exh 2 Line 18
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R12 Exh 4 page 4 Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28	Projected SC Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 10
29	<b>SC Non-Residential EE billing factor (Cents/kWh)</b>	<b>Line 27 / Line 28 * 100</b>
		<b>0.0452</b>

Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Rider 11 Year 3 Lost Revenue Estimate	True up to be Collected in Rider 12	Year 2018
\$ 14,905,045		\$ (989,651)		\$ -	\$ 13,915,394
5,806,479		1,107,249		(14,016)	6,899,713
20,711,524		103,583		(14,016)	20,815,107
1,004,468		1,004,450		1,005,014	
20,804,063		104,044		(14,086)	20,894,021
2,013,322	4,168,069	510,686	4,251,946	967,787	11,911,809
22,817,385	4,168,069	614,730	4,251,946	953,701	32,805,830
					32,092,034
					\$ 713,796
					119,965
					\$ 833,761
					4,505,782,182
					0.0185

## Non-Residential DSM Programs

30	Non-Residential DSM Program Cost	Year 2018 Exh 2 (B * D) Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (C * D) Line 26
32	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 26
33	Non-Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exh 3 Line 3
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R12 Exhibit 2 Line 14
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R12 Exh 4 Page 4 Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 11
42	<b>SC Non-Residential DSM billing factor</b>	<b>Line 40 / Line 41 * 100</b>

Rider 9 Year 2018 Estimate	True-up to be Collected in Rider 11	True up to be Collected in Rider 12	Year 2018 Revenue Requirement True up
\$ 4,294,311	\$ 595,319	\$ (0)	\$ 4,889,630
1,787,668	81,051	(4,217)	1,864,502
6,081,979	676,370	(4,217)	6,754,131
808,421	13,543	-	821,964
6,890,400	689,913	(4,217)	7,576,096
1,004,468	1,004,450	1,005,014	
6,921,186	692,983	(4,238)	7,609,931
			7,714,351
			(104,420)
			21,590
			(82,830)
			5,495,148,562
			<b>(0.0015)</b>

<sup>1</sup> Details outlining the change in the program cost and incentive component can be found in Year 2018 Exh 2.

<sup>2</sup> Updated lost revenues by year can be found in R12 Exh 1 page 2. Year 2018 has been updated with most recent participation. Year 3 Lost Revenues are shown as an estimate. They will be trued up in Rider 13.

		A		B		C		D		E		F		G		H	
								=(A-B)*C		=(B+D)							
System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	SC Retail kWh Sales Allocation Factor	SC Allocation Factor (2)			SC Residential Revenue Requirement						
967	5,530,707	\$ 3,503,558	\$ 1,984,212	11.5%	\$ 174,725	\$ 2,158,937	27.2269600%				E1 * F1	\$ 587,813					
32,802	195,213,017	\$ 164,890,862	\$ 42,585,486	11.5%	\$ 14,065,118	\$ 56,650,604	27.2269600%				E2 * F2	\$ 15,424,237					
1,640	6,367,174	\$ 8,733,688	\$ 6,937,076	11.5%	\$ 206,610	\$ 7,143,686	27.2269600%				E3 * F3	\$ 1,945,009					
904	6,973,243	\$ 4,548,157	\$ 4,666,549	0.0%	\$ -	\$ 4,666,549	27.2269600%				E4 * F4	\$ 1,760,645					
2,303	21,288,910	\$ 16,830,121	\$ 3,595,399	11.5%	\$ 1,521,993	\$ 5,117,392	27.2269600%				E5 * F5	\$ 1,393,310					
929	7,716,668	\$ 6,938,272	\$ 2,827,755	11.5%	\$ 472,709	\$ 3,300,464	27.2269600%				E6 * F6	\$ 898,616					
39,544	243,089,719	\$ 205,444,657	\$ 64,396,478		\$ 16,441,156	\$ 80,837,633						\$ 22,009,630					
95,887	344,759,844	\$ 28,207,657	\$ 12,736,300	11.5%	\$ 1,779,206	\$ 14,515,506	27.2269600%				E8 * F8	\$ 3,952,131					
135,432	587,849,563	\$ 233,652,314	\$ 77,132,778		\$ 18,220,362	\$ 95,353,140						\$ 25,961,761					
SC Residential Peak Demand Allocation Factor																	
533,506	-	\$ 78,750,405	\$ 14,385,126	11.5%	\$ 7,402,007	\$ 21,787,133	26.29348%	38.6819100%	(E10+E26) *F10 *G10		\$ 4,260,777						
668,938	587,849,563	\$ 312,402,719	\$ 91,517,904		\$ 25,622,369	\$ 117,140,273		10.171%			\$ 30,222,538						
System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	SC Retail kWh Sales Allocation Factor			SC Non-Residential Revenue Requirement							
13	83,588	\$ 81,442	\$ 403,871	11.5%	\$ (37,079)	\$ 366,791	27.2269600%			E12 * F12	\$ 99,866						
4,054	30,333,040	\$ 28,227,381	\$ 6,039,708	11.5%	\$ 2,551,582	\$ 8,591,290	27.2269600%			E13 * F13	\$ 2,339,147						
59	741,466	\$ 518,380	\$ 234,375	11.5%	\$ 32,661	\$ 267,036	27.2269600%			E14 * F14	\$ 72,706						
893	2,908,386	\$ 3,470,605	\$ 1,615,730	11.5%	\$ 213,311	\$ 1,829,041	27.2269600%			E16 * F16	\$ 497,992						
31,556	178,171,791	\$ 177,759,083	\$ 25,802,953	11.5%	\$ 17,474,955	\$ 43,277,908	27.2269600%			E17 * F17	\$ 11,783,259						
421	2,669,016	\$ 1,966,173	\$ 276,631	11.5%	\$ 194,297	\$ 470,929	27.2269600%			E18 * F18	\$ 128,220						
-	17,639	\$ 3,605	\$ 36,201	11.5%	\$ (3,748)	\$ 32,453	27.2269600%			E19 * F19	\$ 8,836						
75	331,222	\$ 276,076	\$ 67,107	11.5%	\$ 24,031	\$ 91,138	27.2269600%			E20 * F20	\$ 24,814						
168	3,271,186	\$ 2,010,821	\$ 475,950	11.5%	\$ 176,510	\$ 652,460	27.2269600%			E21 * F21	\$ 177,645						
13,374	76,696,523	\$ 56,980,827	\$ 15,941,553	11.5%	\$ 4,719,517	\$ 20,661,070	27.2269600%			E22 * F22	\$ 5,625,381						
310	1,488,592	\$ 175,126	\$ 214,800	11.5%	\$ (4,563)	\$ 210,237	27.2269600%			E23 * F23	\$ 57,241						
50,922	296,712,																

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

**Duke Energy Carolinas**  
**For the Period January 1, 2018 - December 31, 2018**  
**Docket Number 2020-xx-E**  
**Allocation Factor Year 2018**

			<b>MWH</b>
<b>Sales Allocator - 2017</b>			
1	NC Retail MWH Sales, at Generation	Company Records	58,534,269
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	21,917,798
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	80,452,067
4	Greenwood Retail MWH Sales, at Generation	Company Records	48,295
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	80,500,362
<b>Allocation 1 to state based on kWh sales</b>			
6	SC Retail	Line 2 / Line 5	<b>27.22696%</b>

			<b>NC MW</b>	<b>SC MW</b>	<b>Total MW</b>
<b>Demand Allocators - 2017</b>					
7	Residential	Company Records	5,078,308	1,606,176	6,684,484
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,549,145	2,546,091	9,095,236
9	Greenwood	Company Records	-	12,280	12,280
10	Total	Line 7 + Line 8+ Line 9	11,627,453	4,164,547	15,792,000
11	Wholesale Peak Demand	Company Records			1,443,703
12	Total System Peak Demand	Line 10 + Line 11			17,235,703
<b>Allocation 2 to state based on peak demand</b>					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total			<b>26.29348%</b>
<b>Allocation 3 SC res vs non-res Peak Demand to retail system peak</b>					
14	SC Residential	Line 7,SC / Line 10 Total			<b>10.17082%</b>
15	SC Non-residential	Line 8, SC / Line 10 Total			<b>16.12266%</b>
<b>Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM</b>					
16	SC Residential	Line 7,SC / Line 12 Total			<b>9.31889%</b>
17	SC Non-residential	Line 8, SC / Line 12 Total			<b>14.77219%</b>

Year 2019 Exhibit 1

Duke Energy Carolinas  
For the period January 1, 2019 - December 31, 2019  
Docket No. 2020-xx-E  
Calculation of Year 2019 True up of Shared Savings, Y1 Lost Revenue and Estimate Y3 Lost Revenues

**Residential Energy Efficiency Programs**

Line		Estimate of Year 3 Lost Revenues
1	Residential EE Program Cost	Year 2019 Exh 2 (B * D)
2	Residential EE Earned Utility Incentive	Year 2019 Exh 2 (C * D)
3	Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2019 Exh 2 (B * E)
5	Residential DSM Earned Utility Incentive	Year 2019 Exh 2 (C * E)
6	Total DSM Program Cost and Incentive Components	Year 2019 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2019 Exhibit 3 Line 3
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R12 Exh 1 page 3
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R12 Exh 2 Line 3
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R12 Exh 4 page 2 Line 12
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15
		\$ 4,140,696

Rider 10 Year 2019 Estimate	Rider 11 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 12	Year 2019
\$ 15,277,676		\$ 4,919,801	\$ 20,197,477
1,652,557		1,276,340	2,928,897
16,930,233		6,196,142	23,126,375
3,416,211		(230,952)	3,185,259
1,169,437		156,494	1,325,931
4,585,648		(74,458)	4,511,190
599,227		(73,152)	526,075
22,115,108		6,048,532	28,163,640
1,004,487		1,005,014	
22,214,338		6,078,859	28,293,198
6,730,566	2,189,992	1,812,519	10,733,077
28,944,904	2,189,992	7,891,378	39,026,274
			31,953,825
			\$ 7,072,450
			714,841
			\$ 7,787,290

See Exhibit A for rate

**Non-Residential Energy Efficiency Programs**

	Reference	Estimate of Year 3 Lost Revenues
17	Non- Residential EE Program Cost	Year 2019 Exh 2 (B * D) Line 24
18	Non-Residential EE Earned Utility Incentive	Year 2019 Exh 2 (C * D) Line 24
19	Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 24
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22
22	Non-Residential Net Lost Revenues	R12 Exh 1 page 3
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R12 Exh 2 Line 9
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R12 Exh 4 page 5 Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28	Projected SC Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 12
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100
		0.0815

Rider 10 Year 2019 Estimate	Rider 11 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 12	Year 2019
\$ 15,526,930		\$ (3,418,492)	\$ 12,108,438
3,499,309		682,888	4,182,197
19,026,239		(2,735,604)	16,290,635
1,004,487		1,005,014	
19,111,610		(2,749,320)	16,362,290
3,158,643	5,687,530	(3,084,171)	5,762,002
22,270,253	5,687,530	(5,833,491)	22,124,292
			27,689,557
			\$ (5,565,265)
			(568,825)
			\$ (6,134,090)
			4,448,799,169
			(0.1379)

**Non- Residential DSM Programs**

30	Non- Residential DSM Program Cost	Year 2019 Exh 2 (B * D) Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2019 Exh 2 (C * D) Line 26
32	Total DSM Program Cost and Incentive Components	Year 2019 Exh 2 Line 26
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2019 Exh 3 Line 3
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R12 Exhibit 2 Line 15
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R12 Exh 4 Page 5 Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 13
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100

Rider 10 Year 19 Estimate	True up to be Collected in Rider 12	Year 2019 Revenue Requirement True up
\$ 4,729,223	\$ (185,670)	\$ 4,543,553
1,618,907	272,443	1,891,350
6,348,130	86,773	6,434,903
829,538	(79,128)	750,410
7,177,668	7,645	7,185,313
1,004,487	1	
7,209,874	7,683	7,217,557
		7,057,618
		159,940
		16,347
		\$ 176,287
		5,492,477,062
		0.0032

<sup>1</sup> Details outlining the change in the program cost and incentive component can be found in Year 2019 Exh 2.

<sup>2</sup> Updated lost revenues by year can be found in R12 Exh 1 page 3. Year 2019 has been updated with most recent participation. Year 2 Lost Revenues are shown as an estimate. They will be trued up in Rider 13.

Duke Energy Carolinas  
Evans Exhibit 1, page 2  
Vintage 2019 True Up - January 1, 2019 to December 31, 2019  
Docket Number E-2020-xxxx  
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H		
				=A-B)*C	= (B+D)					
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	SC Retail kWh Sales Allocation Factor	SC Allocation Factor (Z)	SC Residential Revenue Requirement
Residential Programs										
EE Programs										
1 Energy Efficiency Education	841	6,713,787	\$ 2,720,228	\$ 1,684,083	11.5%	\$ 119,157	\$ 1,803,240	26.8476100%		E1 * F1 \$ 484,127
2 Energy Efficient Appliances and Devices	31,803	187,351,705	\$ 109,019,234	\$ 41,380,987	11.5%	\$ 7,778,398	\$ 49,159,385	26.8476100%		E2 * F2 \$ 13,198,120
3 HVAC Energy Efficiency	2,029	7,329,114	\$ 7,862,313	\$ 7,400,669	11.5%	\$ 53,089	\$ 7,453,758	26.8476100%		E3 * F3 \$ 2,001,150
4 Income Qualified Energy Efficiency and Weatherization Assistance	1,105	9,029,752	\$ 3,978,569	\$ 7,342,133	0.0%	\$ -	\$ 7,342,133	26.8476100%		E4 * F4 \$ 1,971,187
5 Multi-Family Energy Efficiency	2,649	24,086,174	\$ 12,696,952	\$ 3,680,155	11.5%	\$ 1,036,932	\$ 4,717,087	26.8476100%		E5 * F5 \$ 1,266,425
6 Energy Assessments	946	7,886,916	\$ 4,631,948	\$ 3,186,888	11.5%	\$ 166,182	\$ 3,353,070	26.8476100%		E6 * F6 \$ 900,219
7 Total for Residential Conservation Programs	39,373	242,397,448	\$ 140,909,244	\$ 64,674,916		\$ 9,153,758	\$ 73,828,673			\$ 19,821,234
8 My Home Energy Report (1)	91,387	328,439,103	\$ 25,821,106	\$ 10,555,159	11.5%	\$ 1,755,584	\$ 12,310,743	26.8476100%		E8 * F8 \$ 3,305,140
9 Total Residential Conservation and Behavioral Programs	130,760	570,836,550	\$ 166,730,350	\$ 75,230,075		\$ 10,909,342	\$ 86,139,417			\$ 23,126,374
SC Residential Peak Demand Allocation Factor										
10 PowerManager	568,235	-	\$ 84,747,635	\$ 13,382,639	11.5%	\$ 8,206,860	\$ 21,590,498	25.6859100%	41.212790%	(E10+E26) *F10 *G10 \$ 4,511,190
11 Total Residential	698,996	570,836,550	\$ 251,477,985	\$ 88,613,714		\$ 19,116,201	\$ 107,729,915		10.585880%	\$ 27,637,564
Non-Residential Programs										
EE Programs										
12 Non Residential Smart Saver Custom Technical Assessments	148	1,930,762	\$ 721,698	\$ 295,925	11.5%	\$ 48,964	\$ 344,889	26.8476100%		E12 * F12 \$ 92,594
13 Non Residential Smart Saver Custom	10,109	52,522,612	\$ 38,688,495	\$ 8,871,440	11.5%	\$ 3,428,961	\$ 12,300,401	26.8476100%		E13 * F13 \$ 3,302,364
14 Non Residential Smart Saver Energy Efficient Food Service Products	76	870,041	\$ 379,642	\$ 339,904	11.5%	\$ 4,570	\$ 344,474	26.8476100%		E14 * F14 \$ 92,483
15 Non Residential Smart Saver Energy Efficient HVAC Products	1,367	5,950,986	\$ 5,012,312	\$ 2,207,760	11.5%	\$ 322,523	\$ 2,530,283	26.8476100%		E16 * F16 \$ 679,321
16 Non Residential Smart Saver Energy Efficient Lighting Products	28,280	149,658,444	\$ 105,053,019	\$ 20,829,118	11.5%	\$ 9,685,749	\$ 30,514,867	26.8476100%		E17 * F17 \$ 8,192,512
17 Non Residential Energy Efficient Pumps and Drives Products	166	1,043,899	\$ 545,837	\$ 189,123	11.5%	\$ 41,022	\$ 230,145	26.8476100%		E18 * F18 \$ 61,789
18 Non Residential Energy Efficient ITEE	-	8,442	\$ 1,036	\$ 44,323	11.5%	\$ (4,978)	\$ 39,345	26.8476100%		E19 * F19 \$ 10,563
19 Non Residential Energy Efficient Process Equipment Products	84	540,487	\$ 329,501	\$ 119,811	11.5%	\$ 24,114	\$ 143,926	26.8476100%		E20 * F20 \$ 38,641
20 Non Residential Smart Saver Performance Incentive	391	4,545,995	\$ 2,330,743	\$ 784,949	11.5%	\$ 177,766	\$ 962,716	26.8476100%		E21 * F21 \$ 258,466
21 Small Business Energy Saver	9,196	53,674,194	\$ 27,495,209	\$ 11,418,264	11.5%	\$ 1,848,849	\$ 12,267,113	26.8476100%		E22 * F22 \$ 3,561,903
22 Smart Energy in Offices	-	-	\$ -	\$ -	11.5%	\$ -	\$ -	26.8476100%		E23 * F23 \$ -
23 Total for Non-Residential Conservation Programs	49,817	270,745,861	\$ 180,557,492	\$ 45,100,618		\$ 15,577,541	\$ 60,678,158			\$ 16,290,636
SC Non-Residential Peak Demand Allocation Factor										
24 EnergyWise for Business	11,598	2,704,118	\$ 3,164,708	\$ 3,686,451	11.5%	\$ (60,000)	\$ 3,626,450			
25 PowerShare	342,590	-	\$ 51,094,491	\$ 13,019,606	11.5%	\$ 4,378,612	\$ 17,398,218			
26 Total for Non-Residential DSM Programs	354,188	2,704,118	\$ 54,259,199	\$ 16,706,057		\$ 4,318,611	\$ 21,024,668	25.6859100%	58.787211%	(E10+E26) *F26 *G26 \$ 6,434,903
27 Total Non Residential	404,005	273,449,978	\$ 234,816,691	\$ 61,806,674		\$ 19,896,152	\$ 81,702,826		15.100030%	\$ 22,725,539
28 Total All Programs	1,103,001	844,286,529	\$ 486,294,677	\$ 150,420,388		\$ 39,012,353	\$ 189,432,741			\$ 50,363,103
(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages										
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak										

Duke Energy Carolinas  
For the Period January 1, 2019 - December 31, 2019  
Docket Number 2020-xx-E  
Actual Existing DSM Program Costs - Year 2019

		Year 2019	
1 Actual total IS/SG credits to be paid for native load programs	Line 9	\$ 5,471,225	
		Residential	Non-residential
2 SC retail allocation factor - system peak demand	Year 2019 Exhibit 4, Line 16, 17	9.61530%	13.71557%
3 SC retail share IS/SG program costs	Line 1 * Line 2	\$ 526,075	\$ 750,410

PROGRAM	Jan - Dec 2019 Credits Paid
4 INTERRUPTIBLE SERVICE CREDITS	\$ 3,843,292
5 STANDBY GENERATOR PAYMENTS	165,541
6 WHOLESALE A/C LOAD CONTROL CREDITS	338,624
7 WHOLESALE INTERRUPTIBLE SERVICE CREDITS	1,123,768
8 Wholesale Penalties	
9 TOTAL CREDITS	\$ 5,471,225

Note: Regulatory fee to be added to total revenue requirement on Vintage Year Exhibit.

**Duke Energy Carolinas**  
**For the Period January 1, 2019 - December 31, 2019**  
**Docket Number 2020-xx-E**  
**Allocation Factor Year 2019**

			<b>MWH</b>
<b>Sales Allocator - 2018</b>			
1	NC Retail MWH Sales, at Generation	Company Records	62,147,533
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,828,069
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	84,975,602
4	Greenwood Retail MWH Sales, at Generation	Company Records	52,719
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	85,028,321
<b>Allocation 1 to state based on kWh sales</b>			
6	SC Retail	Line 2 / Line 5	<b>26.84761%</b>

			<b>NC MW</b>	<b>SC MW</b>	<b>Total MW</b>
<b>Demand Allocators - 2018</b>					
7	Residential	Company Records	5,420,002	1,681,673	7,101,675
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,373,991	2,398,790	8,772,781
9	Greenwood	Company Records	-	11,544	11,544
10	Total	Line 7 + Line 8+ Line 9	11,793,993	4,092,007	15,886,000
11	Wholesale Peak Demand	Company Records			1,603,545
12	Total System Peak Demand	Line 10 + Line 11			17,489,545
<b>Allocation 2 to state based on peak demand</b>					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total			<b>25.68591%</b>
<b>Allocation 3 SC res vs non-res Peak Demand to retail peak</b>					
14	SC Residential	Line 7,SC / Line 10 Total			<b>10.58588%</b>
15	SC Non-residential	Line 8, SC / Line 10 Total			<b>15.10003%</b>
<b>Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM</b>					
16	SC Residential	Line 7,SC / Line 12 Total			<b>9.61530%</b>
17	SC Non-residential	Line 8, SC / Line 12 Total			<b>13.71557%</b>

Duke Energy Carolinas  
For the Period January 1, 2019 - December 31, 2019  
Docket Number 2020-xx-E  
Actual Program Costs - Year 2019

	System Costs Months of January 1, 2019 - December 31, 2019	Residential	Non-Residential
Energy Efficiency (EE) Programs:			
1 My Home Energy Report	\$ 10,555,159	10,555,159	
2 Energy Assessments	3,186,888	3,186,888	
3 Residential – Smart Saver Energy Efficiency Program	7,400,669	7,400,669	
4 Energy Efficient Appliances and Devices	41,380,987	41,380,987	
Income Qualified Energy Efficiency and Weatherization			
5 Assistance	7,342,133	7,342,133	
6 Multi-Family Energy Efficiency	3,680,155	3,680,155	
7 Appliance Recycle Program	-	-	
8 Energy Efficiency Education	1,684,083	1,684,083	
9 Nonresidential Smart Saver Performance Incentives	784,949		784,949
10 Smart Saver Custom Technical Assessments	295,925		295,925
11 Smart Saver Custom	8,871,440		8,871,440
12 Smart Saver Efficient Food Service Products	339,904		339,904
13 Smart Saver Efficient HVAC Products	2,207,760		2,207,760
14 Smart Saver Efficient Lighting Products	20,829,118		20,829,118
15 Nonresidential Energy Efficient Pumps and Drives	189,123		189,123
16 Nonresidential Energy Efficient ITEE	44,323		44,323
17 Nonresidential Energy Efficient Process Equipment Products	119,811		119,811
18 Small Business Energy Saver	11,418,264		11,418,264
19 Smart Energy in Offices	-		-
20 Business Energy Report	-		-
21 Subtotal EE Program Costs	\$ 120,330,693	\$ 75,230,075	\$ 45,100,618
Demand-Side Management (DSM) Programs:			
22 Power Manager	\$ 13,383,639	\$ 13,383,639	
23 EnergyWise for Business	3,686,451		3,686,451
24 Power Share	13,019,606		13,019,606
25 Subtotal DSM Program Costs	\$ 30,089,695	\$ 13,383,639	\$ 16,706,057
26 Total EE & DSM Program Costs - Year 2018	<u>\$ 150,420,388</u>	<u>\$ 88,613,714</u>	<u>\$ 61,806,674</u>

Year 2019 Exhibit 6

Duke Energy Carolinas  
Changes to DSM/EE Cost Recovery Vintage 2019 True Up January 1, 2019 - December 31, 2019  
Changes from Prior Filing Due to Application of M&V and Participation  
System kWh and kW Impacts Net Free Riders at the Plant

## Residential Programs

Program Name	Filed in Docket 2018-72-E		Filed in Docket 2020-XX-E		Overall Variance		2018-72-E	2020-xx-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW				kWh	kW	kWh	kW	kWh	kW	kWh	kW
	System Participation		Participation		Participation		Participation		Participation		Participation		Participation		Participation		Participation
Energy Efficiency Education Program for Schools	5,701,506	1,339	6,713,787	841	1,012,280	(497)	26,705	24,785	(1,920)	(409,919)	(96)	-	-	1,422,200	(401)	1,012,280	(497)
Energy Efficient Appliances and Devices	97,320,521	16,726	187,351,705	31,803	90,031,183	15,077	3,997,670	9,893,466	5,895,796	102,630,042	13,446	5,166,789	389	(17,765,648)	1,242	90,031,183	15,077
Residential – Smart Saver Energy Efficiency Program	5,130,696	1,294	7,329,114	2,029	2,198,418	735	9,630	25,852	16,222	3,814,398	1,676	(507,093)	(179)	(1,108,887)	(761)	2,198,418	735
Income Qualified Energy Efficiency and Weatherization Assistance	4,043,435	639	9,029,752	1,105	4,986,316	467	10,114	10,814	700	967,344	135	-	-	4,018,972	332	4,986,316	467
Multi-Family Energy Efficiency	19,846,385	2,001	24,086,174	2,649	4,239,789	648	342,660	493,307	150,647	1,757,319	173	2,504,662	317	(22,191)	158	4,239,789	648
Energy Assessments	6,542,935	1,040	7,886,916	946	1,343,981	(94)	34,304	61,692	27,388	1,826,639	273	169,564	19	(652,222)	(386)	1,343,981	(94)
My Home Energy Report	312,934,099	79,359	328,439,103	91,387	15,505,004	12,027	1,364,000	1,339,152	(24,848)	(8,076,363)	(2,011)	-	-	23,581,367	14,038	15,505,004	12,027
PowerManager	-	534,419	-	568,235	-	33,816	503,131	534,967	31,836	-	-	-	-	-	-	-	33,816
Residential Programs Total	451,519,578	636,816	570,836,550	698,996	119,316,972	62,179	6,288,214	12,384,035	6,095,821	102,509,461	47,412	7,333,923	545	9,473,589	14,222	119,316,972	62,179

## Non-Residential Programs

Program Name	Filed in Docket 2018-72-E		Filed in Docket 2020-XX-E		Overall Variance		2018-72-E	2020-xx-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW				kWh	kW	kWh	kW	kWh	kW	kWh	kW
	System Participation		Participation		Participation		Participation		Participation		Participation		Participation		Participation		Participation
Non Residential Smart Saver Custom Technical Assessments	8,831,594	1,008	1,930,762	148	(6,900,831)	(860)	6,125	4	(6,121)	-	-	(6,900,831)	(860)	-	-	(6,900,831)	(860)
Non Residential Smart Saver Custom	60,678,525	6,927	52,522,612	10,109	(8,155,912)	3,183	48,280	34,709	(13,571)	-	-	(8,155,912)	3,183	-	-	(8,155,912)	3,183
Non Residential Smart Saver Energy Efficient Food Service Products	10,601,930	1,159	870,041	76	(9,731,890)	(1,083)	11,695	2,419	(9,276)	(4,662,804)	(459)	(4,052,247)	(474)	(1,016,839)	(149)	(9,731,890)	(1,083)
Non Residential Smart Saver Energy Efficient HVAC Products	13,318,652	5,012	5,950,986	1,367	(7,367,666)	(3,645)	231,113	3,038,732	2,807,618	(1,001,440)	(934)	(5,655,028)	(2,500)	(711,198)	(211)	(7,367,666)	(3,645)
Non Residential Smart Saver Energy Efficient Lighting Products	122,943,286	16,312	149,658,444	28,280	26,715,157	11,968	14,523,270	5,456,789	(9,066,481)	(12,262,414)	(368)	15,890,028	5,915	23,087,543	6,421	26,715,157	11,968
Non Residential Energy Efficient Pumps and Drives Products	6,310,561	978	1,043,899	166	(5,266,662)	(812)	8,662	1,131	(7,532)	(5,550,813)	(856)	(31,163)	(6)	315,313	50	(5,266,662)	(812)
Non Residential Energy Efficient ITEE	6,503,152	50	8,442	-	(6,494,710)	(50)	5,382	134	(5,248)	(99,171)	-	(6,394,065)	(50)	(1,474)	-	(6,494,710)	(50)
Non Residential Energy Efficient Process Equipment Products	1,052,919	129	540,487	84	(512,432)	(45)	4,669	11,232	6,563	(187,188)	(32)	(423,895)	(30)	98,652	17	(512,432)	(45)
Non Residential Smart Saver Performance Incentive	21,489,480	2,453	4,545,995	391	(16,943,485)	(2,062)	23,254,911	19	(23,254,892)	-	-	(16,943,485)	(2,062)	-	-	(16,943,485)	(2,062)
Smart Energy in Offices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Small Business Energy Saver	75,258,073	14,501	53,674,194	9,196	(21,583,880)	(5,306)	61,700,000	51,421,356	(10,278,644)	(12,422,870)	(4,316)	470	0	(9,161,481)	(989)	(21,583,880)	(5,306)
Business Energy Report	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EnergyWise for Business	2,885,926	16,662	2,704,118	11,598	(181,808)	(5,064)	19,023	15,053	(3,970)	504,397	(4,836)	-	-	(686,206)	(229)	(181,808)	(5,064)
PowerShare	-	337,864	-	342,590	-	4,726	318,083	322,533	4,450	-	4,726	-	-	-	-	-	4,726
Non-Residential Programs Total	329,874,099	403,056	273,449,978	404,005	(56,424,120)	950	100,131,213	60,304,110	(39,827,103)	(35,682,302)	(7,076)	(32,666,129)	3,116	11,924,311	4,910	(56,424,120)	950
Total Residential and Non-Residential Programs	781,393,677	1,039,872	844,286,529	1,103,001	62,892,852	63,129	106,419,427	72,688,145	(33,731,281)	66,827,159	40,336	(25,332,207)	3,661	21,397,900	19,132	62,892,852	63,129

NOTE - The actual per unit impacts are reflective of the following EM&amp;V reports:

Program Name As Filed	Docket	Report Reference	Effective Date
Income Qualified Energy Efficiency and Weatherization Assistance	2019-89-E	Duke Energy Carolinas and Duke Energy Progress 2017 Neighborhood Energy Saver Program Evaluation Report - Final	11/30/2019
My Home Energy Report	2019-89-E	My Home Energy Report Program Evaluation	7/10/2019
PowerShare	2019-89-E	Duke Energy PowerShare Program 2018 Evaluation Report for Duke Energy Carolinas	5/2/2019
Residential – Smart Saver Energy Efficiency Program	2019-89-E	Smart Saver Evaluation Report – May 1, 2016 – April 30, 2017 (Revised)	3/15/2019
Energy Efficiency Education in Schools Program	2019-89-E	Energy Efficiency Education in Schools Program Year 2017-2018 Evaluation Report	2/1/2019
Smart Saver® Non-Residential Custom Program	2019-89-E	Smart Saver® Non-Residential Custom Program Years 2016-2017 Evaluation Report	11/29/2018

Year 2020 Exhibit 1

Duke Energy Carolinas  
Docket No. 2020-xx-E  
Calculation of Year 2020 Estimate of Lost Revenues Year 2

**Residential Energy Efficiency Programs**

Line	Reference	Year 2 Projections
1 Residential Net Lost Revenues - Year 2	R12 Exh 1 page 4	\$1,975,653
2 Projected SC Residential Sales (kWh)	R12 Exh 3 Page 1 Line 3	6,591,986,001
3 <b>SC Residential EE Billing Factor (Cents/kWh)</b>	<b>Line 1 / Line 2</b>	<b>0.0300</b>

**Non-Residential Energy Efficiency Programs**

Line	Reference	Year 2 Projections
4 Non-Residential Net Lost Revenues - Year 2	R12 Exh 1 page 4	\$3,314,813
5 Projected SC Non-Residential EE Sales (kWh)	R12 Exh 3 Page 1 Line 14	4,404,495,996
6 <b>SC Non-Residential EE Billing Factor (Cents/kWh)</b>	<b>Line 4 / Line 5</b>	<b>0.0753</b>

Year 2021 Exhibit 1, Page 1

Duke Energy Carolinas  
Docket No. 2020-xx-E  
Calculation of Year 2021 Estimate of Earned Utility Savings and Year 1 Lost Revenues

Energy Efficiency Programs		
Line	Reference	Year 1
1 Residential EE Program Cost	Year 2021 Exh 2 (B * E) Line 10	\$13,647,972
2 Residential EE Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 10	1,347,911
3 Total EE Program Cost and Incentive Components	Year 2021 Exh 2 Line 10	14,995,883
4 Residential DSM Program Cost	Year 2021 Exh 2 (B * E) Line 11	4,250,561
5 Residential DSM Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 11	1,574,866
6 Total DSM Program Cost and Incentive Components	Year 2021 Exh 2 Line 11	5,825,427
7 Residential Existing DSM Program Revenue Requirement Estimate	Year 2019 Exhibit 3 Line 3	526,075
8 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	21,347,385
9 Revenue-related taxes and regulatory fees factor		1.005014
10 Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	21,454,421
11 Residential Net Lost Revenues	R12 Exh 1 page 6	9,000,224
12 Total Residential EE Revenue Requirement	Line 10 + Line 11	30,454,645
13 Projected SC Residential Sales (kWh)	R12 Exh 3 Page 1 Line 3	6,591,986,001
14 SC Residential EE Billing Factor (Cents/kWh)	Line 12 / Line 13*100	0.4620

**Duke Energy Carolinas**  
**Docket No. 2020-xx-E**  
**Calculation of Year 2021 Estimated Earned Utility Savings and Year 1 Lost Revenues**

<b>Non-Residential Energy Efficiency Programs</b>		
Line	Reference	Year 1
1 Non- Residential EE Program Cost	Year 2021 Exh 2 (B * E) Line 25	\$14,055,510
2 Non-Residential EE Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 25	3,977,540
3 Total EE Program Cost and Incentive Components	Year 2021 Exh 2 Line 25	18,033,049
4 Revenue-related taxes and regulatory fees factor		1.005014
5 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 3 * Line 4	18,123,467
6 Non-Residential Net Lost Revenues	R12 Exh 1 p 5	1,982,820
7 Total Non-Residential EE Revenue Requirement	Line 5 + Line 6	20,106,288
8 Projected SC Non-Residential Sales (kWh)	R12 Exh 3 Page 1 Line 16	4,404,495,996
9 <b>SC Non-Residential EE billing factor (Cents/kWh)</b>	Line 7 / Line 8 *100	<b>0.4565</b>
 <b>Non- Residential DSM Programs</b>		
		Year 1
10 Non-Residential DSM Program Cost	Year 2021 Exh 2 (B * E) Line 26	\$6,063,134
11 Non-Residential DSM Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 26	2,246,437
12 Total Non-Residential DSM Program Cost and Incentive Components	Year 2021 Exh 2 Line 26	8,309,571
13 Non-Residential Existing DSM Program Revenue Requirement	Year 2018 Exhibit 3 Line 3	750,410
14 Total Non-Residential SAW & Existing DSM Program Revenue Requirement	Line 12 + Line 13	9,059,981
15 Revenue-related taxes and regulatory fees factor		1.005014
16 Total Non-Residential DSM Revenue Requirement	Line 14 * Line 15	9,105,408
17 Projected SC Non-Residential Sales (kWh)	R12 Exh 3 p 1 Line 17	5,492,477,062
18 <b>SC Non-Residential DSM billing factor</b>	Line 16 / Line 17 * 100	<b>0.1658</b>

Year 2021 Exhibit 2

Duke Energy Carolinas  
Exhibit 1, page 2  
Vintage 2020 Estimate - January 1, 2021 to December 31, 2021  
Docket Number  
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H			
				=(A-B)*C	=(B+D)						
Residential Programs	System kW Reduction - Summer Peak	System kW Reduction - Winter Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	SC Retail kWh Sales Allocation Factor	SC Allocation Factor (2)	SC Residential Revenue Requirement
EE Programs											
1 Energy Efficiency Education Program for Schools	997	1,407	7,951,567	\$ 3,331,203	\$ 2,315,055	11.5%	\$ 116,857	\$ 2,431,912	26.8476100%		E2 * F2 \$ 652,910
2 Energy Efficient Appliances and Devices	9,790	5,988	56,621,851	\$ 28,517,100	\$ 10,615,734	11.5%	\$ 2,058,657	\$ 12,674,391	26.8476100%		E3 * F3 \$ 3,402,771
3 HVAC Energy Efficiency	1,347	1,284	5,570,374	\$ 5,285,708	\$ 5,936,054	11.5%	\$ (74,790)	\$ 5,861,264	26.8476100%		E4 * F4 \$ 1,573,609
4 Income Qualified Energy Efficiency and Weatherization Assistance	1,658	1,814	9,167,483	\$ 6,124,084	\$ 8,077,022	0.0%	\$ -	\$ 8,077,022	26.8476100%		E5 * F5 \$ 2,168,487
5 Multi-Family Energy Efficiency	2,983	4,947	28,264,645	\$ 15,677,339	\$ 4,853,158	11.5%	\$ 1,244,781	\$ 6,097,939	26.8476100%		E6 * F6 \$ 1,637,151
6 Energy Assessments	1,778	1,264	14,921,990	\$ 8,096,762	\$ 6,105,383	11.5%	\$ 229,009	\$ 6,334,392	26.8476100%		E7 * F7 \$ 1,700,633
7 Total for Residential Conservation Programs	18,552	16,704	122,497,311	\$ 67,032,195	\$ 37,902,406		\$ 3,574,514	\$ 41,476,919			\$ 11,135,562
8 My Home Energy Report (1)	94,985	39,714	342,160,803	\$ 25,507,226	\$ 12,932,554	11.5%	\$ 1,446,087	\$ 14,378,641	26.8476100%		E9 * F9 \$ 3,860,322
9 Total Residential Conservation and Behavioral Programs	113,537	56,418	464,658,114	\$ 92,539,421	\$ 50,834,960		\$ 5,020,601	\$ 55,855,561			\$ 14,995,883
									SC Residential Peak Demand Allocation Factor		
10 PowerManager	658,987	-	-	\$ 108,313,027	\$ 20,427,903	11.5%	\$ 10,106,789	\$ 30,534,692	25.6859100%	41.2127894%	(E11+E29) *F11 *G11 \$ 5,825,427
11 Total Residential	772,525	56,418	464,658,114	\$ 200,852,448	\$ 71,262,862		\$ 15,127,390	\$ 86,390,253			\$ 20,821,310
Non-Residential Programs	System kW Reduction - Summer Peak	System kW Reduction - Winter Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	SC Retail kWh Sales Allocation Factor		SC Non-Residential Revenue Requirement
EE Programs											
12 Non Residential Smart Saver Custom Technical Assessments	626	626	5,482,371	\$ 3,004,687	\$ 1,106,646	11.5%	\$ 218,275	\$ 1,324,921	26.8476100%		E13 * F13 \$ 355,710
13 Non Residential Smart Saver Custom	7,579	7,579	53,115,768	\$ 32,061,270	\$ 10,192,972	11.5%	\$ 2,514,854	\$ 12,707,826	26.8476100%		E14 * F14 \$ 3,411,748
14 Non Residential Smart Saver Energy Efficient Food Service Products	212	196	4,280,461	\$ 1,447,684	\$ 1,057,658	11.5%	\$ 44,853	\$ 1,102,511	26.8476100%		E16 * F16 \$ 295,998
15 Non Residential Smart Saver Energy Efficient HVAC Products	1,118	439	3,698,306	\$ 2,817,507	\$ 1,732,792	11.5%	\$ 124,742	\$ 1,857,535	26.8476100%		E17 * F17 \$ 498,704
16 Non Residential Smart Saver Energy Efficient Lighting Products	27,805	26,034	156,866,525	\$ 106,040,070	\$ 24,280,837	11.5%	\$ 9,402,312	\$ 33,683,149	26.8476100%		E18 * F18 \$ 9,043,120
17 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	429	424	2,717,418	\$ 1,354,655	\$ 424,983	11.5%	\$ 106,912	\$ 531,896	26.8476100%		E19 * F19 \$ 142,801
18 Non Residential Energy Efficient ITEE	-	-	272,355	\$ 26,710	\$ 47,381	11.5%	\$ (2,377)	\$ 45,004	26.8476100%		E20 * F20 \$ 12,082
19 Non Residential Energy Efficient Process Equipment Products	186	206	877,998	\$ 431,751	\$ 117,383	11.5%	\$ 36,152	\$ 153,536	26.8476100%		E21 * F21 \$ 41,221
20 Non Residential Smart Saver Performance Incentive	1,701	1,701	14,901,572	\$ 7,635,585	\$ 2,365,586	11.5%	\$ 606,050	\$ 2,971,636	26.8476100%		E22 * F22 \$ 797,813
21 Small Business Energy Saver	9,404	5,944	50,790,447	\$ 26,361,247	\$ 11,026,688	11.5%	\$ 1,763,474	\$ 12,790,162	26.8476100%		E23 * F23 \$ 3,433,853
22 Total for Non-Residential Conservation Programs	49,060	43,150	293,003,221	\$ 181,181,165	\$ 52,352,927		\$ 14,815,247	\$ 67,168,174			\$ 18,033,049
									SC Non-Residential Peak Demand Allocation Factor		
23 EnergyWise for Business	20,801	-	2,557,568	\$ 4,445,492	\$ 5,981,812	11.5%	\$ (176,677)	\$ 5,805,135			
24 PowerShare	344,454	664	-	\$ 56,760,162	\$ 13,743,409	11.5%	\$ 4,946,927	\$ 18,690,336			
25 Total for Non-Residential DSM Programs	365,255	664	2,557,568	\$ 61,205,655	\$ 19,725,221		\$ 4,770,250	\$ 24,495,471	25.6859100%	58.7872106%	(E11+E29) *F29 *G29 \$ 8,309,571
26 Total Non Residential	414,316	43,814	295,560,789	\$ 242,386,820	\$ 72,078,147		\$ 19,585,497	\$ 91,663,645			\$ 26,342,621
27 Total All Programs	1,186,840	100,233	760,218,903	\$ 443,239,268	\$ 143,341,010		\$ 34,712,888	\$ 178,053,898			\$ 47,163,931
(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage years											
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak											

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages  
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

**Duke Energy Carolinas**  
**For the Period January 1, 2019 - December 31, 2019**  
**Docket Number 2020-xx-E**  
**Allocation Factor Year 2019 and used for Estimate of Year 2021**

			MWH			
<b>Sales Allocator - 2018</b>						
1	NC Retail MWH Sales, at Generation	Company Records	62,147,533			
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,828,069			
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	84,975,602			
4	Greenwood Retail MWH Sales, at Generation	Company Records	52,719			
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	85,028,321			
<b>Allocation 1 to state based on kWh sales</b>						
6	SC Retail	Line 2 / Line 5	<b>26.84761%</b>			
<b>Demand Allocators - 2018</b>				NC MW	SC MW	Total MW
7	Residential	Company Records	5,420,002	1,681,673	7,101,675	
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,373,991	2,398,790	8,772,781	
9	Greenwood	Company Records	-	11,544	11,544	
10	Total	Line 7 + Line 8+ Line 9	11,793,993	4,092,007	15,886,000	
11	Wholesale Peak Demand	Company Records			1,603,545	
12	Total System Peak Demand	Line 10 + Line 11			17,489,545	
<b>Allocation 2 to state based on peak demand</b>						
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	<b>25.68591%</b>			
<b>Allocation 3 SC res vs non-res Peak Demand to retail system peak</b>						
14	SC Residential	Line 7,SC / Line 10 Total	<b>10.58588%</b>			
15	SC Non-residential	Line 8, SC / Line 10 Total	<b>15.10003%</b>			
<b>Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM</b>						
16	SC Residential	Line 7,SC / Line 12 Total	<b>9.61530%</b>			
17	SC Non-residential	Line 8, SC / Line 12 Total	<b>13.71557%</b>			

Duke Energy Carolinas  
For the Period January 1, 2016 - December 31, 2021  
Docket Number 2020-xx-E  
South Carolina Lost Revenues Vintage Year 2014-2020

	Year 2017	2017 (1/2 year) <sup>(a)</sup>	2018	2019	2020	2021	Total
<b>Residential</b>							
1 Appliance Recycling	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
2 Energy Efficiency Education Program for Schools	55,350	100,919	73,720	24,447			254,436
3 Energy Efficient Appliances and Devices	1,245,721	2,448,502	1,788,952	645,928			6,129,103
4 Residential – Smart Saver Energy Efficiency Program	53,370	92,335	67,439	20,886			234,029
5 Income Qualified Energy Efficiency and Weatherization Assistance	45,063	76,672	56,016	16,954			194,705
6 Multi-Family Energy Efficiency	128,050	209,178	152,601	43,338			533,167
7 My Home Energy Report	3,641,670	-	-	-			3,641,670
8 Energy Assessments	84,808	150,158	109,685	35,048			379,699
9 Total Lost Revenues	\$ 5,254,032	\$ 3,077,763	\$ 2,248,412	\$ 786,602		\$	11,366,808
10 Found Residential Revenue	-	-	-	-			-
11 Net Lost Residential Revenue	\$ 5,254,032	\$ 3,077,763	\$ 2,248,412	\$ 786,602		\$	11,366,808
<b>Non-Residential</b>							
	2017 (1/2 year) <sup>(a)</sup>	2018	2019	2020	2021		Total
12 Non Residential Smart Saver Custom Technical Assessments	\$ 98,727	\$ 147,311	\$ 102,378	\$ 22,871		\$	371,286
13 Non Residential Smart Saver Custom	346,582	489,807	339,562	67,102			1,243,053
14 Non Residential Smart Saver Energy Efficient Food Service Products	5,578	8,350	5,816	1,321			21,066
15 Non Residential Smart Saver Energy Efficient HVAC Products	29,059	50,322	35,188	10,266			124,836
16 Non Residential Smart Saver Energy Efficient Lighting Products	2,276,326	3,829,612	2,675,973	748,047			9,529,958
17 Non Residential Energy Efficient Pumps and Drives Products	9,540	19,793	13,763	4,894			47,989
18 Non Residential Energy Efficient ITEE	20	34	24	7			83
19 Non Residential Energy Efficient Process Equipment Products	4,423	15,012	10,312	4,876			34,623
20 Non Residential Smart Saver Performance Incentive	-	-	-	-			-
21 Small Business Energy Saver	832,006	1,623,149	1,136,213	382,331			3,973,700
22 Smart Energy in Offices	73,273	27,109	-	-			100,382
23 EnergyWise for Business	13,042	38,047	26,781	12,215			90,085
24 Business Energy Report	-	-	-	-			-
25 Total Lost Revenues	\$ 3,688,576	\$ 6,248,546	\$ 4,346,010	\$ 1,253,930		\$	15,537,062
26 Found Non-Residential Revenue	-	-	-	-			-
27 Net Lost Residential Revenue	3,688,576	6,248,546	4,346,010	1,253,930			15,537,062

Duke Energy Carolinas  
For the Period January 1, 2016 - December 31, 2021  
Docket Number 2020-xx-E  
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 12 Exhibit 1, Page 2

	Year 2018	2017	2018 (1/2 year) <sup>(a)</sup>	2019	2020	2021	Total				
Residential											
28	Appliance Recycling		\$ -	\$ -	\$ -	\$ -	-				
29	Energy Efficiency Education Program for Schools		41,156	92,505	94,634	51,165	279,460				
30	Energy Efficient Appliances and Devices		1,525,153	3,463,649	3,543,552	1,932,422	10,464,775				
31	Residential – Smart Saver Energy Efficiency Program		41,873	82,630	84,525	40,313	249,341				
32	Income Qualified Energy Efficiency and Weatherization Assistance		62,722	107,104	109,591	43,311	322,729				
33	Multi-Family Energy Efficiency		113,699	174,208	178,107	58,263	524,278				
34	My Home Energy Report		4,062,061	-	-	-	4,062,061				
35	Energy Assessments		76,345	141,476	144,732	64,104	426,657				
36	Total Lost Revenues	\$	5,923,008	\$	4,061,573	\$	4,155,141	\$	2,189,578	\$	16,329,301
37	Found Residential Revenue		-	-	-	-	-				
38	Net Lost Residential Revenue	\$	5,923,008	\$	4,061,573	\$	4,155,141	\$	2,189,578	\$	16,329,301
Non-Residential											
			2018 (1/2 year) <sup>(a)</sup>	2019	2020	2021	Total				
39	Non Residential Smart Saver Custom Technical Assessments	\$	1,799	\$	2,010	\$	2,050	\$	171	\$	6,029
40	Non Residential Smart Saver Custom		130,273	363,407	369,597	233,400	1,096,678				
41	Non Residential Smart Saver Energy Efficient Food Service Products		5,253	9,114	9,268	3,799	27,434				
42	Non Residential Smart Saver Energy Efficient HVAC Products		18,852	50,582	51,579	31,711	152,724				
43	Non Residential Smart Saver Energy Efficient Lighting Products		1,889,248	3,179,271	3,235,116	1,255,494	9,559,129				
44	Non Residential Energy Efficient Pumps and Drives Products		1,940	10,899	11,057	9,042	32,938				
45	Non Residential Energy Efficient ITEE		69	316	322	249	956				
46	Non Residential Energy Efficient Process Equipment Products		2,580	5,059	5,103	2,462	15,203				
47	Non Residential Smart Saver Performance Incentive		4,071	25,079	25,437	21,190	75,777				
48	Small Business Energy Saver		463,185	923,404	939,978	453,536	2,780,103				
49	Smart Energy in Offices		19,846	1,795	-	-	21,641				
50	EnergyWise for Business		33,590	59,750	60,908	25,394	179,643				
51	Business Energy Report		-	-	-	-	-				
52	Total Lost Revenues	\$	2,570,707	\$	4,630,686	\$	4,710,416	\$	2,036,447	\$	13,948,256
53	Found Non-Residential Revenue		-	-	-	-	-				
54	Net Lost Residential Revenue		2,570,707	4,630,686	4,710,416	2,036,447	13,948,256				

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas  
For the Period January 1, 2016 - December 31, 2021  
Docket Number 2020-xx-E  
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 12, Exhibit 1 Page 3

	Year 2019	2017	2018	2019 (1/2 year) <sup>(a)</sup>	2020	2021	Total
<b>Residential</b>							
55 Energy Efficiency Education Program for Schools				\$ 44,709	\$ 99,434	\$ 99,434	\$ 243,578
56 Energy Efficient Appliances and Devices				1,773,596	3,343,188	3,343,188	8,459,971
57 Residential – Smart Saver Energy Efficiency Program				42,742	87,466	87,466	217,674
58 Income Qualified Energy Efficiency and Weatherization Assistance				109,307	183,958	183,958	477,223
59 Multi-Family Energy Efficiency				146,961	265,959	265,959	678,878
60 My Home Energy Report				4,388,268	-	-	4,388,268
61 Energy Assessments				86,798	160,691	160,691	408,180
62 Total Lost Revenues				\$ 6,592,381	\$ 4,140,696	\$ 4,140,696	\$ 14,873,773
63 Found Residential Revenue				-	-	-	-
64 Net Lost Residential Revenue				\$ 6,592,381	\$ 4,140,696	\$ 4,140,696	\$ 14,873,773
<b>Non-Residential</b>							
		2018	2019 (1/2 year) <sup>(a)</sup>	2020	2021	Total	
65 Non Residential Smart Saver Custom Technical Assessments			\$ -	\$ -	\$ -	\$ -	-
66 Non Residential Smart Saver Custom			126,171	242,538	242,538	611,246	
67 Non Residential Smart Saver Energy Efficient Food Service Products			8,303	17,364	17,364	43,032	
68 Non Residential Smart Saver Energy Efficient HVAC Products			61,647	149,638	149,638	360,923	
69 Non Residential Smart Saver Energy Efficient Lighting Products			1,481,758	2,413,453	2,413,453	6,308,664	
70 Non Residential Energy Efficient Pumps and Drives Products			1,628	7,493	7,493	16,614	
71 Non Residential Energy Efficient ITEE			65	112	112	289	
72 Non Residential Energy Efficient Process Equipment Products			1,793	4,320	4,320	10,433	
73 Non Residential Smart Saver Performance Incentive			-	-	-	-	
74 Small Business Energy Saver			420,883	732,462	732,462	1,885,808	
75 EnergyWise for Business			33,354	59,019	59,019	151,393	
76 Total Lost Revenues			\$ 2,135,602	\$ 3,626,400	\$ 3,626,400	\$ 9,388,402	
77 Found Non-Residential Revenue			-	-	-	-	
78 Net Lost Residential Revenue			2,135,602	3,626,400	3,626,400	9,388,402	

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas  
For the Period January 1, 2016 - December 31, 2021  
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South Carolina Lost Revenues Vintage Year 2014-2020

Rider 12, Exhibit 1 Page 4

Year 2020		2017	2018	2019	2020 (1/2 year) <sup>(a)</sup>	2021	Total
<b>Residential</b>							
79	Energy Efficiency Education Program for Schools				56,950	124,535	181,485
80	Energy Efficient Appliances and Devices				426,394	881,866	1,308,260
81	Residential – Smart Saver Energy Efficiency Program				93,938	195,051	288,989
82	Income Qualified Energy Efficiency and Weatherization Assistance				44,693	163,166	207,860
83	Multi-Family Energy Efficiency				207,409	430,663	638,072
84	My Home Energy Report				4,942,558	-	4,942,558
85	Energy Assessments				67,088	180,372	247,460
86	Total Lost Revenues				\$ 5,839,031	\$ 1,975,653	\$ 7,814,684
87	Found Residential Revenue				-	-	-
88	Net Lost Residential Revenue				5,839,031	1,975,653	7,814,684
<b>Non-Residential</b>							
		2017	2018	2019	2020 (1/2 year) <sup>(a)</sup>	2021	Total
89	Non Residential Smart Saver Custom Technical Assessments				\$ 65,403	\$ 132,162	\$ 197,565
90	Non Residential Smart Saver Custom				495,115	1,037,473	1,532,588
91	Non Residential Smart Saver Energy Efficient Food Service Products				20,065	34,065	54,130
92	Non Residential Smart Saver Energy Efficient HVAC Products				12,874	13,495	26,369
93	Non Residential Smart Saver Energy Efficient Lighting Products				648,966	1,033,400	1,682,366
94	Non Residential Energy Efficient Pumps and Drives Products				22,428	36,390	58,818
95	Non Residential Energy Efficient ITEE				1,450	2,499	3,949
96	Non Residential Energy Efficient Process Equipment Products				2,621	4,311	6,932
97	Non Residential Smart Saver Performance Incentive				165,852	329,570	495,422
98	Small Business Energy Saver				392,216	653,792	1,046,008
99	EnergyWise for Business				21,986	37,656	59,642
100	Total Lost Revenues				\$ 1,848,976	\$ 3,314,813	\$ 5,163,790
101	Found Non-Residential Revenue				-	-	-
102	Net Lost Residential Revenue				1,848,976	3,314,813	5,163,790

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas  
For the Period January 1, 2016 - December 31, 2021  
Docket Number 2020-xx-E  
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 12, Exhibit 1 Page 5

	Year 2021	2017	2018	2019	2020	2021 (1/2 year)	Total
<b>Residential</b>							
103 Appliance Recycling						\$ -	\$ -
104 Energy Efficiency Education Program for Schools						86,354	86,354
105 Energy Efficient Appliances and Devices						556,195	556,195
106 Residential – Smart Saver Energy Efficiency Program						63,100	63,100
107 Income Qualified Energy Efficiency and Weatherization Assistance						110,930	110,930
108 Multi-Family Energy Efficiency						282,743	282,743
109 My Home Energy Report						7,745,723	7,745,723
110 Energy Assessments						155,178	155,178
111 Total Lost Revenues						\$ 9,000,224	\$ 9,000,224
112 Found Residential Revenue							-
113 Net Lost Residential Revenue						9,000,224	9,000,224
<b>Non-Residential</b>							
114 Non Residential Smart Saver Custom Technical Assessments						\$ 49,041	\$ 49,041
115 Non Residential Smart Saver Custom						444,941	444,941
116 Energy Management Information Systems						-	-
116 Non Residential Smart Saver Energy Efficient Food Service Products						4,344	4,344
117 Non Residential Smart Saver Energy Efficient HVAC Products						19,951	19,951
118 Non Residential Smart Saver Energy Efficient Lighting Products						864,457	864,457
119 Non Residential Energy Efficient Pumps and Drives Products						13,192	13,192
120 Non Residential Energy Efficient ITEE						1,336	1,336
121 Non Residential Energy Efficient Process Equipment Products						11,348	11,348
122 Non Residential Smart Saver Performance Incentive						120,382	120,382
123 Small Business Energy Saver						428,466	428,466
124 Smart Energy in Offices						-	-
124 EnergyWise for Business						25,362	25,362
124 Business Energy Report							-
125 Total Lost Revenues						1,982,820	\$ 1,982,820
126 Found Non-Residential Revenue							-
127 Net Lost Residential Revenue						1,982,820	\$ 1,982,820

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Rider 12 Exhibit 2

Duke Energy Carolinas  
For the Period January 1, 2017 - December 31, 2020  
Docket Number 2020-xx-E  
DSM/EE Actual Revenues Collected from Years 2017 - 2019 (By Vintage)  
and Estimated 2020 Collections from Rider 11 (By Vintage)

			Actual 2017	<sup>1</sup> Actual 2018	Actual 2019	Actuals	Estimated 2020	Total Revenue Estimated Collected through 2020
Line			Rider 8	Rider 9	Rider 10	Total	Rider 11	
	New Mechanism							
	Residential							
1	EE and DSM	2017	22,373,744	1,734,312	14,367,644	38,475,700	393,147	38,868,847
2	EE and DSM	2018		31,444,916	2,428,773	33,873,689	8,768,654	42,642,343
3	EE and DSM	2019			29,763,833	29,763,833	2,189,992	31,953,825
4	EE and DSM	2020					25,078,737	25,078,737
5	Interest	2017			934,494	934,494	709,425	1,643,919
6	Interest	2018					534,159	534,159
	Non-Residential							
7	EE	2017	17,081,335	4,428,890	27,468,053	48,978,277	2,177,467	51,155,744
8	EE	2018		20,670,345	5,661,432	26,331,777	5,760,257	32,092,034
9	EE	2019			22,002,027	22,002,027	5,687,530	27,689,557
10	EE	2020					20,142,538	20,142,538
11	EE Interest	2017			1,941,096	1,941,096	889,970	2,831,066
12	EE Interest	2018					246,016	246,016
13	DSM	2017	6,368,636	137,133	584,748	7,090,518	(137,134)	6,953,384
14	DSM	2018		6,299,502	413,784	6,713,287	1,001,064	7,714,351
15	DSM	2019			7,057,618	7,057,618	-	7,057,618
16	DSM	2020					9,092,443	9,092,443
17	DSM Interest	2017			66,055	66,055	7,682	73,737
18	DSM Interest	2018					126,506	126,506
19	Total Revenue Collected		45,823,715	64,715,098	112,689,557	223,228,369	82,668,453	305,896,822

<sup>1</sup> Actual 2017 and 2018 Revenue Source: Rider 11 Exhibit 2 Docket 2018-89-E as filed in conjunction with the Office of Regulatory Staff's review of Duke Energy Carolinas, LLC Application for Approval of Rider 11.

<sup>2</sup> Estimated 2020 Revenue Source: Rider 11 Exhibit A.

In order to calculate interest properly, the component of interest that is estimated to be collected related to prior year collection of revenues has been segregated from the revenue requirement.

Duke Energy Carolinas  
For the Period January 1, 2019 - December 31, 2019  
Docket Number 2020-XX-E  
Forecasted kWh Sales for Years 2016-2021

### Fall 2019 Sales Forecast - kWhs

Adjusted SC Retail Sales Forecast (excludes Greenwood sales)		2021 Sales	Factor to Exclude Greenwood Sales from Forecast	2019 MWh Usage	Percent to Total
1 Residential	Company Records	6,636,315,928	Total SC Residential Sales	6,769,118	
2 Factor to exclude Greenwood	see calc. to right	99.33201%	Greenwood Residential Sales	45,217	
3 Residential sales excluding Greenwood	Line 1*Line 2	6,591,986,001	SC Residential Sales excluding Greenwood	6,723,901	99.33201%
4 Non-Residential (excluding lighting)	Company Records	14,899,365,182	Total SC Non-Residential Sales	14,697,398	
5 Factor to exclude Greenwood	see calc. to right	99.97316%	Greenwood Non-Residential Sales	3,944	
6 Non-Residential sales excluding Greenwood	Line 4*Line 5	14,895,366,192	SC Non-Residential Sales excluding Greenwood	14,693,454	99.97316%
7 Total Retail sales excluding Greenwood	Line 3 + Line 6	<u>21,487,352,194</u>	Total SC Retail Sales	21,466,517	
			Greenwood Retail Sales	49,162	
			SC Retail Sales excluding Greenwood	21,417,355	

### Opt Out Sales

	Total Retail Sales	Less: Opt Outs	Net Retail Sales
Year 2017			
8 EE	14,895,366,192	10,330,674,738	4,564,691,454
9 DSM	14,895,366,192	9,447,131,796	5,448,234,396
Year 2018			
10 EE	14,895,366,192	10,389,584,010	4,505,782,182
11 DSM	14,895,366,192	9,400,217,630	5,495,148,562
Year 2019			
12 EE	14,895,366,192	10,446,567,023	4,448,799,169
13 DSM	14,895,366,192	9,402,889,130	5,492,477,062
Year 2020			
14 EE	14,895,366,192	10,490,870,196	4,404,495,996
15 DSM	14,895,366,192	9,402,889,130	5,492,477,062
Year 2021			
16 EE	14,895,366,192	10,490,870,196	4,404,495,996
17 DSM	14,895,366,192	9,402,889,130	5,492,477,062

**Summary:**

Revenue collected as a part of this solar access fee will offset the revenue requirement of the EE rider. Since revenue collected is not assigned a vintage, it will be subtracted from the total revenue requirement requested on Exhibit A.

[illegible]

**Duke Energy Carolinas**  
**For the Period January 2017 - December 31, 2019**  
**Docket Number 2019-89-E**  
**Residential Interest Calculation - Year 2017 -2018**

**Residential**

<b>Year 2017</b>		<b><u>2017</u></b>	<b><u>2018</u></b>	<b><u>2019</u></b>	<b><u>2020</u></b>	<b><u>Total</u></b>
1 Revenue Requirement	Year 2017 Exhibit 1	\$ 30,462,648	\$ 3,977,873	2,335,588	699,427	\$ 37,475,536
2 Revenue Collections	Rider 12, Exhibit 2	22,373,744	1,734,312	14,367,644	393,147	38,868,847
3 (Over) / Under Collection	Line 1 - Line 2	8,088,905	2,243,561	(12,032,057)	306,280	(1,393,311)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	8,088,905	10,332,466	(1,699,591)	(1,393,311)	
5 Average Balance (Over)/Under Collection		4,044,452	9,210,685	4,316,438	(1,546,451)	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005650	0.005556	
7 Number of Months		12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 280,620	\$ 639,074	\$ 292,657	\$ (103,105)	\$ 1,109,246
9 Interest Paid (Returned) in Prior Rider	R11 Exh 2 Line 6					1,636,602
10 Interest Due - Rider 12	Line 8 - Line 9					\$ (527,356)
11 Gross Receipts Tax						1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11					\$ (530,000)
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed collected on Rider 12 Exhibit 2.

<b>Year 2018</b>		<b><u>2017</u></b>	<b><u>2018</u></b>	<b><u>2019</u></b>	<b><u>2020</u></b>	<b><u>Total</u></b>
1 Revenue Requirement	Year 2018 Exhibit 1		\$ 36,554,574	4,804,465	3,658,997	\$ 45,018,037
2 Revenue Collections	Rider 12, Exhibit 2		31,444,916	2,428,773	8,768,654	Note D 42,642,343
3 (Over) / Under Collection	Line 1 - Line 2		5,109,658	2,375,692	(5,109,657)	2,375,694
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4		5,109,658	7,485,350	2,375,694	
5 Average Balance (Over)/Under Collection			2,554,829	6,297,504	4,930,522	
6 Monthly rate (WACC)	Line 13/12		0.005782	0.005650	0.005556	
7 Number of Months			12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7		\$ 177,264	\$ 426,974	\$ 328,715	\$ 932,953
9 Interest Paid (Returned) in Prior Rider	N/A					531,793
10 Interest Due - Rider 12	Line 8 - Line 9					\$ 401,161
11 Gross Receipts Tax						1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11					\$ 403,172
13 Weighted average cost of capital (WACC)			6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 12 Exhibit 2.

**Duke Energy Carolinas**  
**For the Period January 2019 - December 31, 2019**  
**Docket Number 2019-89-E**  
**Residential Interest Calculation - Year 2019**

## Residential

<b>Year 2019</b>		<b><u>2019</u></b>	<b><u>2020</u></b>		<b><u>Total</u></b>
1 Revenue Requirement	Year 2017 Exhibit 1	36,836,282	2,189,992		\$ 39,026,274
2 Revenue Collections	Rider 12, Exhibit 2	29,763,833	2,189,992	Note C	31,953,825
3 (Over) / Under Collection	Line 1 - Line 2	7,072,450	-		-
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	7,072,450	7,072,450		
5 Average Balance (Over)/Under Collection		3,536,225	7,072,450		
6 Monthly rate (WACC)	Line 13/12	0.00565004	0.005555791		
7 Number of Months		12	12		
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 239,758	\$ 471,517		\$ 711,274
9 Interest Paid (Returned) in Prior Rider	N/A				-
10 Interest Due - Rider 12	Line 8 - Line 9				\$ 711,274
11 Gross Receipts Tax					1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11				\$ 714,841
13 Weighted average cost of capital (WACC)		6.7800%	6.6669%		
		NOTE A	NOTE B		

NOTE A: 5 months Docket 2013-59-E and 7 months Docket 2018-319-E

NOTE B: Docket 2018-319-E

NOTE C: Estimated Year 2 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 12 Exhibit 2.

**Duke Energy Carolinas**  
**For the Period January 2017 - December 31, 2019**  
**Docket Number 2019-89-E**  
**Non-Residential Interest Calculation Year 2017**

**Non-Residential**

**Year 2017 - Energy Efficiency**

		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Total</u>
1 Revenue Requirement before interest	Year 2017 Exhibit 1	\$ 33,701,645	\$ 11,296,323	\$ 4,448,507	\$ 1,151,434	\$ 50,597,909
2 Revenue Collections	Rider 12, Exhibit 2	17,081,335	4,428,890	27,468,053	2,177,467	51,155,744
3 (Over) / Under Collection	Line 1 - Line 2	16,620,310	6,867,434	(23,019,545)	(1,026,033)	(557,835)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	16,620,310	23,487,744	468,198	(557,835)	
5 Average Balance (Over)/Under Collection		8,310,155	20,054,027	11,977,971	(44,818)	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 576,592	\$ 1,391,429	\$ 831,080	\$ (3,110)	\$ 2,799,100
9 Interest Paid (Returned) in prior rider	Rider 12, Exhibit 2, Line 15					2,818,452
10 Interest Due - Rider 12	Line 8 - Line 9					\$ (19,352)
11 Gross Receipts Tax						1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11					\$ (19,449)
13 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.7800%	6.6669%	
		NOTE A	NOTE A	NOTE B	NOTE C	

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE B: Estimated Year D lost revenue and revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

**Year 2017 - DSM**

		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Total</u>
14 Revenue Requirement before interest	Year 2017, Exhibit 1	\$ 7,000,484				\$ 7,000,484
15 Revenue Collections	Rider 10, Exhibit 2	6,368,636	137,133	584,748	(137,134)	6,953,384
16 (Over) / Under Collection	Line 14 - Line 15	631,848	(137,133)	(584,748)	137,134	47,100
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	631,848	494,715	(90,034)	47,100	
18 Average Balance (Over)/Under Collection		315,924	563,281	202,340	(21,467)	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 21,920	\$ 39,083	\$ 14,039	\$ (1,489)	73,553
22 Interest Paid (Returned) in Prior Rider	Rider 12, Exhibit 2, Line 23					73,408
23 Interest Due - Rider 12	Line 21 - Line 22					\$ 145
24 Gross Receipts Tax						1.005014
25 Interest Due - including GRT - Rider 12	Line 23 * Line 24					\$ 145
26 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.7800%	6.6669%	
		NOTE A	NOTE A	NOTE B	NOTE C	

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

**Duke Energy Carolinas**  
**For the Period January 2018 - December 31, 2019**  
**Docket Number 2020-xx-E**  
**Non-Residential Interest Calculation Year 2018**

**Non-Residential**

**Year 2018 - Energy Efficiency**

		<u>2018</u>	<u>2019</u>	<u>2020</u>		<u>Total</u>
1 Revenue Requirement before interest	Year 2018 Exhibit 1	\$ 23,432,115	\$ 5,121,770	\$ 4,251,946		\$ 32,805,830
2 Revenue Collections	Rider 12, Exhibit 2	20,670,345	5,661,432	5,760,257	NOTE D	32,092,034
3 (Over) / Under Collection	Line 1 - Line 2	2,761,770	(539,662)	(1,508,311)		713,796
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	2,761,770	2,222,108	713,796		
5 Average Balance (Over)/Under Collection		1,380,885	2,491,939	1,467,952		
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5650%	0.5650%		
7 Number of Months		12	12	12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 95,811	\$ 168,953	\$ 99,527		\$ 364,292
9 Interest Paid (Returned) in prior rider	Rider 12, Exhibit 2, Line 16					244,926
10 Interest Due - Rider 12	Line 8 - Line 9					\$ 119,366
11 Gross Receipts Tax						1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11					\$ 119,965
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated Year 3 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

**Year 2018 - DSM**

		<u>2018</u>	<u>2019</u>	<u>2020</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2018, Exhibit 1	\$ 7,614,169	\$ (4,238)			\$ 7,609,931
15 Revenue Collections	Rider 11, Exhibit 2	6,299,502	413,784	1,001,064	NOTE D	7,714,351
16 (Over) / Under Collection	Line 14 - Line 15	1,314,667	(418,023)	(1,001,064)		(104,420)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	1,314,667	896,644	(104,420)		
18 Average Balance (Over)/Under Collection		657,333	1,105,656	396,112		
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5650%	0.5650%		
20 Number of Months		12	12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 45,608	\$ 74,963	\$ 26,856		147,428
22 Interest Paid (Returned) in Prior Rider	Rider 12, Exhibit 2, Line 24					125,946
23 Interest Due - Rider 12	Line 21 - Line 22					\$ 21,483
24 Gross Receipts Tax						1.005014
25 Interest Due - including GRT - Rider 12	Line 23 * Line 24					\$ 21,590
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated 2019 revenue included at requested amount on Rider 12 Exhibit 2.

**Duke Energy Carolinas**  
**For the Period January 2019 - December 31, 2019**  
**Docket Number 2020-xx-E**  
**Non-Residential Interest Calculation Year 2019**

**Non-Residential****Year 2019 - Energy Efficiency**

		<u>2019</u>	<u>2020</u>		<u>Total</u>
1 Revenue Requirement before interest	Year 2019 Exhibit 1	\$ 16,436,762	\$ 5,687,530		\$ 22,124,292
2 Revenue Collections	Rider 12, Exhibit 2	22,002,027	5,687,530	NOTE C	27,689,557
3 (Over) / Under Collection	Line 1 - Line 2	(5,565,265)	-		(5,565,265)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	(5,565,265)	(5,565,265)		
5 Average Balance (Over)/Under Collection		(2,782,632)	(5,565,265)		
6 Monthly rate (WACC)	Line 13/12	0.5650%	0.5650%		
7 Number of Months		12	12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ (188,662)	\$ (377,325)		\$ (565,987)
9 Interest Paid (Returned) in prior rider	N/A				-
10 Interest Due - Rider 12	Line 8 - Line 9				\$ (565,987)
11 Gross Receipts Tax					1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11				\$ (568,825)
13 Weighted average cost of capital (WACC)		6.7800%	6.6669%		
		NOTE A	NOTE B		

NOTE A: January through May 2019 uses Docket 2013-59-E; June through December uses Docket 2018-319-E

NOTE B: Docket 2018-319-E

NOTE C: Estimated Year 2 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

**Year 2019 - DSM**

		<u>2019</u>	<u>2020</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2019, Exhibit 1	\$ 7,217,557			\$ 7,217,557
15 Revenue Collections	Rider 12, Exhibit 2	7,057,618		NOTE C	7,057,618
16 (Over) / Under Collection	Line 14 - Line 15	159,940	-		159,940
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	159,940	159,940		
18 Average Balance (Over)/Under Collection		79,970	159,940		
19 Monthly rate (WACC)	Line 26/12	0.5650%	0.5650%		
20 Number of Months		12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 5,422	\$ 10,844		16,266
22 Interest Paid (Returned) in Prior Rider	N/A				-
23 Interest Due - Rider 12	Line 21 - Line 22				\$ 16,266
24 Gross Receipts Tax					1.005014
25 Interest Due - including GRT - Rider 12	Line 23 * Line 24				\$ 16,347
26 Weighted average cost of capital (WACC)		6.7800%	6.6669%		
		NOTE A	NOTE B		

NOTE A: January through May 2019 uses Docket 2013-59-E; June through December uses Docket 2018-319-E

NOTE B: Docket 2018-319-E